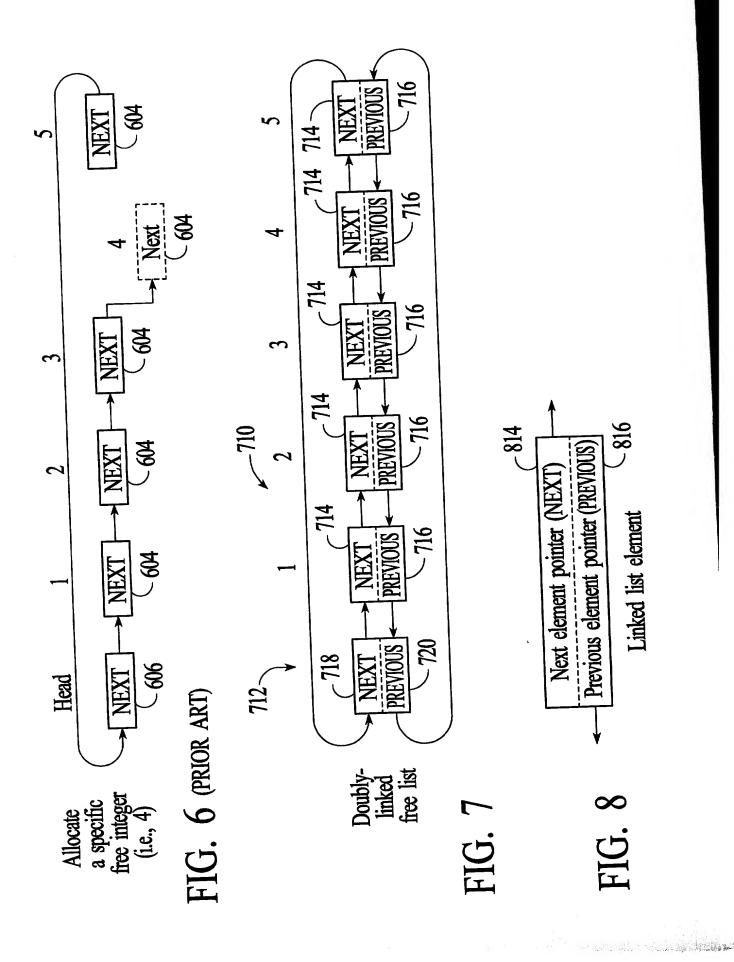
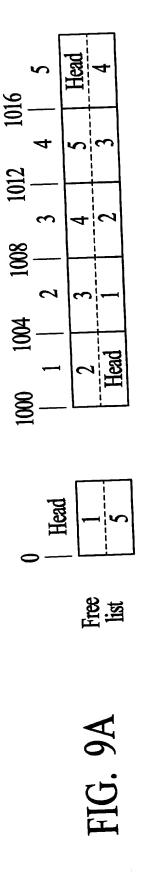


FIG. 5 (PRIOR ART)

and to histian



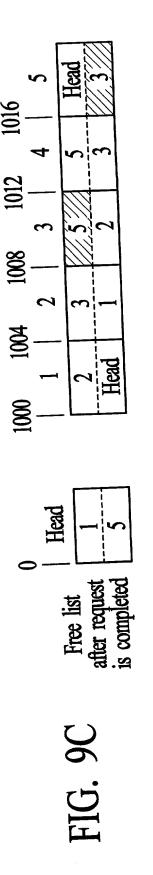


Request: Allocate a specific free number (i.e., 4)

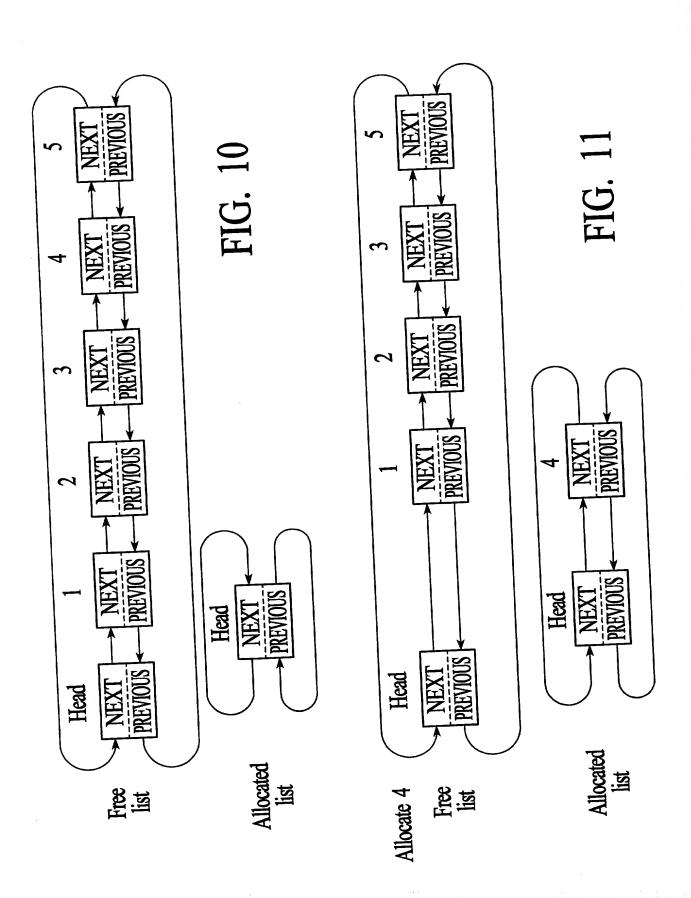
Use previous pointer to identify previous element and then adjust next pointer of the previous element

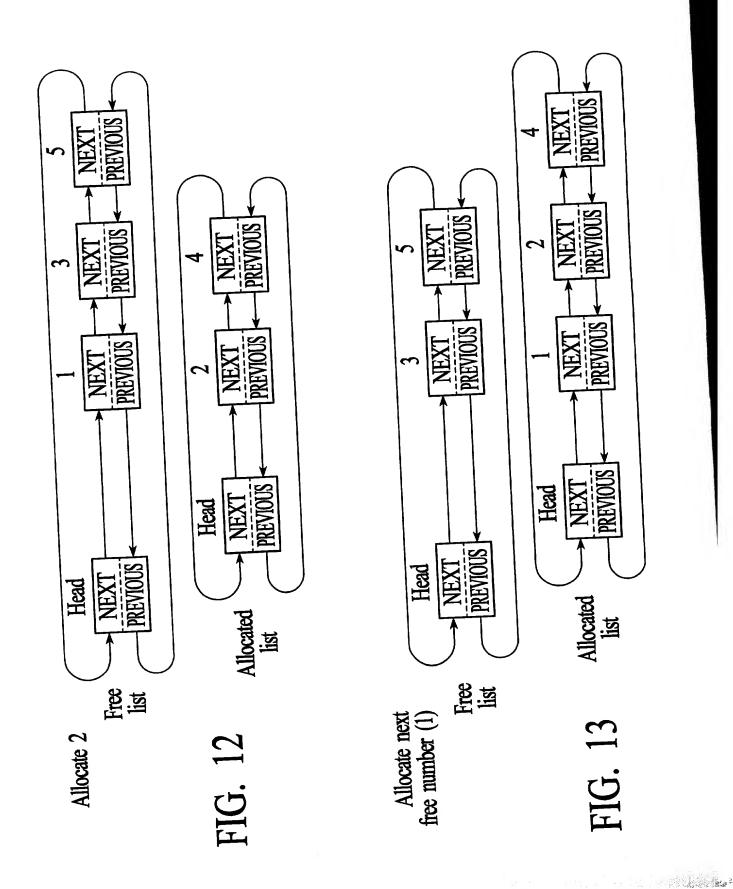
FIG. 9B

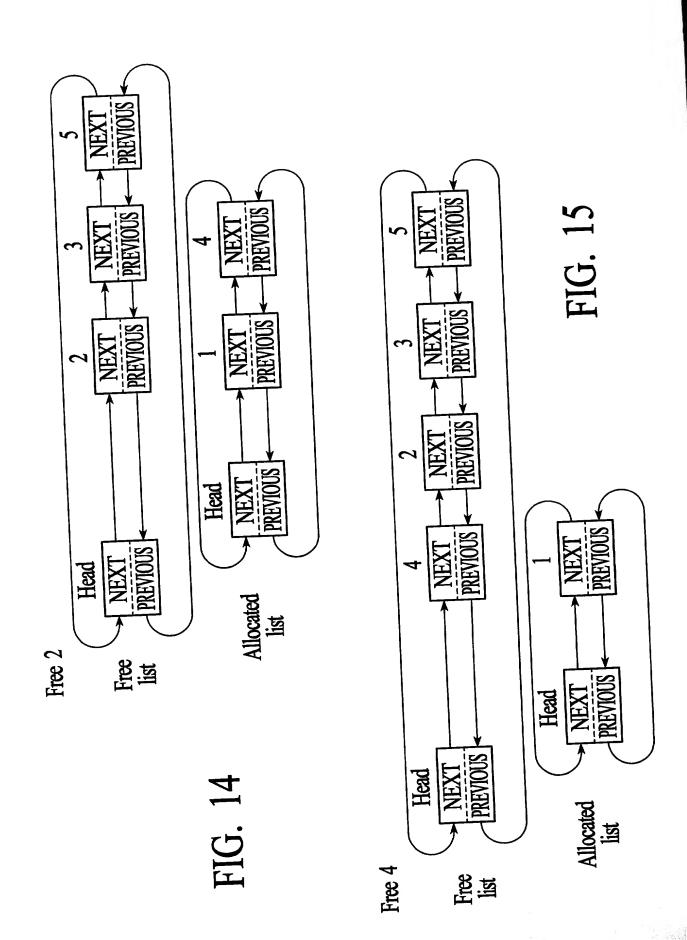
Use next pointer to identify next element and then adjust previous pointer of the next element

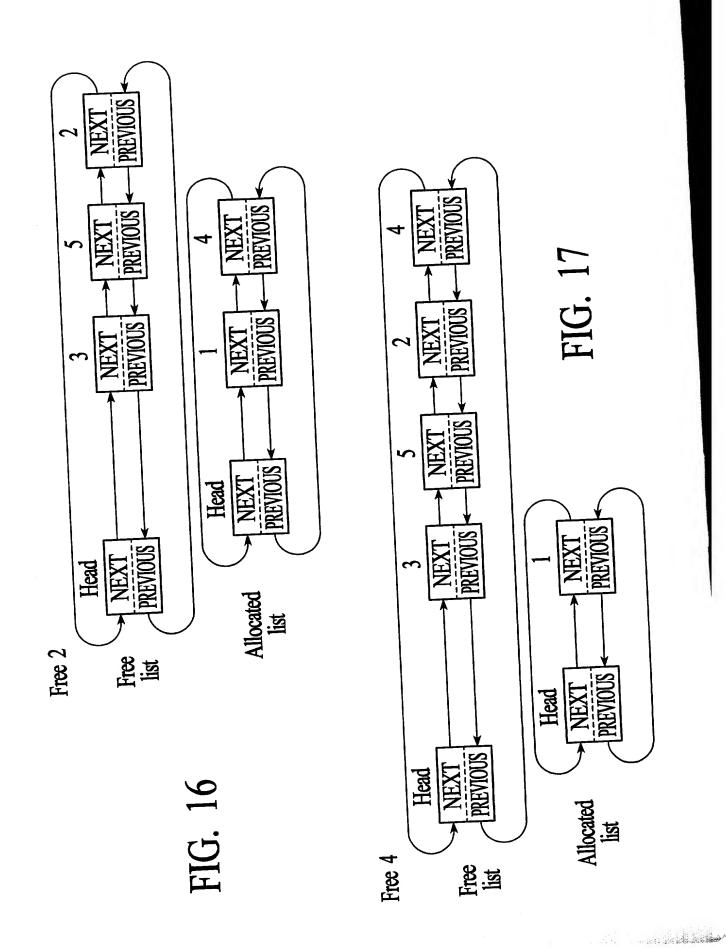


an off





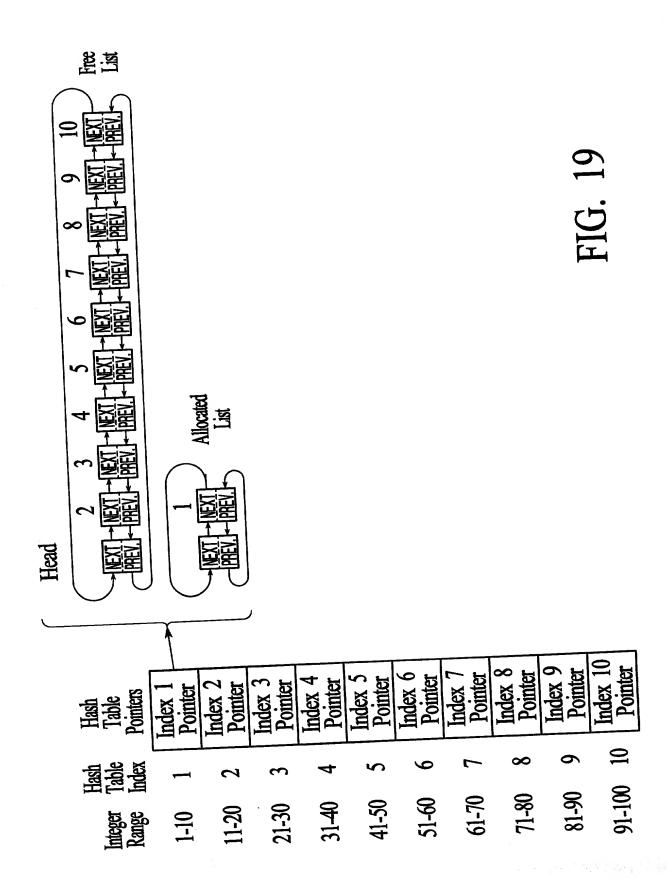


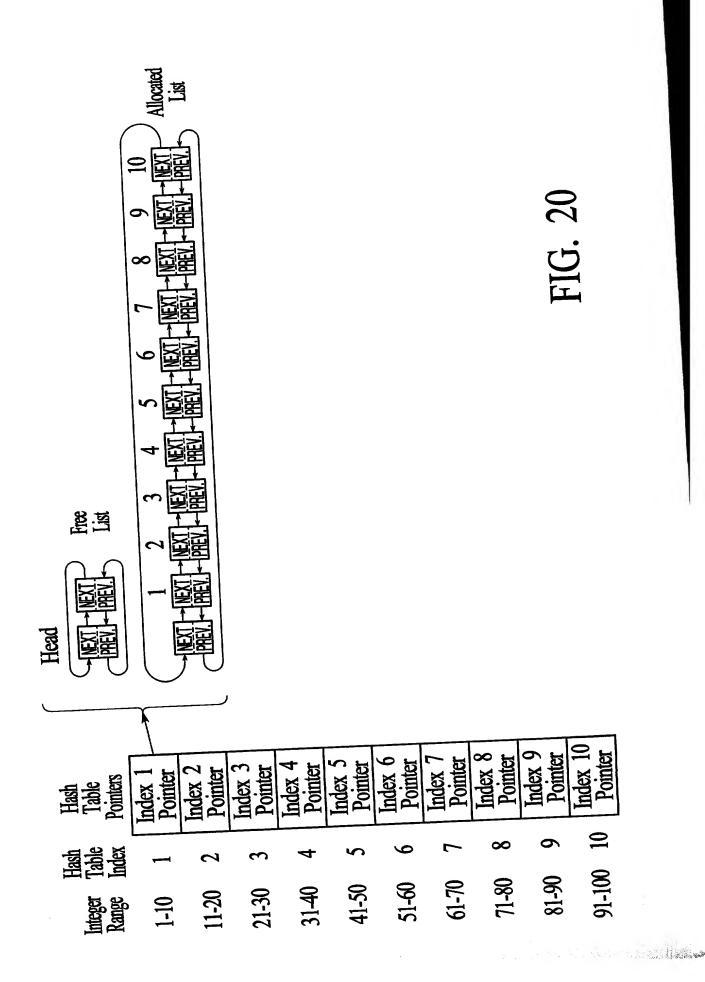


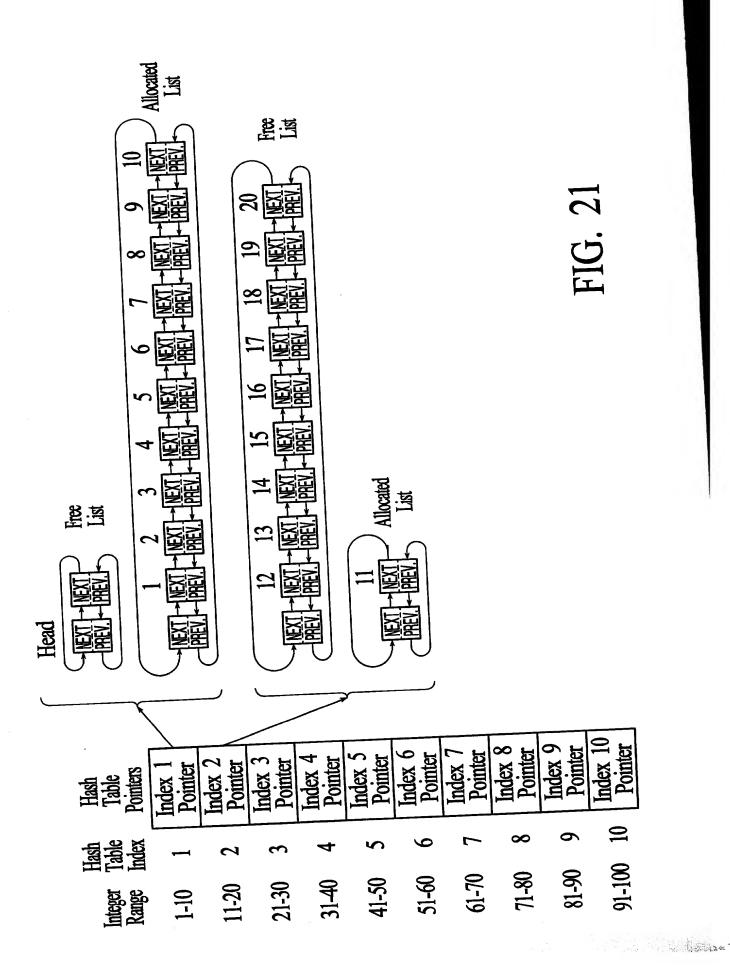
Free List Head NEXT	PREVIOUS PREVIOUS	Free List Alloc List Head Head 11	i	TALL TOTAL T	•				Free List Alloc List 91 100	NEXT	//
Hash Table Pointers	Index 1 Pointer	Index 2 Pointer	Index 3 Pointer	Index 4 Pointer	Index 5 Pointer	Index 6 Pointer	Index 7 Pointer	Index 8 Pointer	Index 9 Pointer	Index 10 Pointer	
Hash Table Index		7	3	4	8	9	7	∞	6	10	×
Integer Range	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	しに

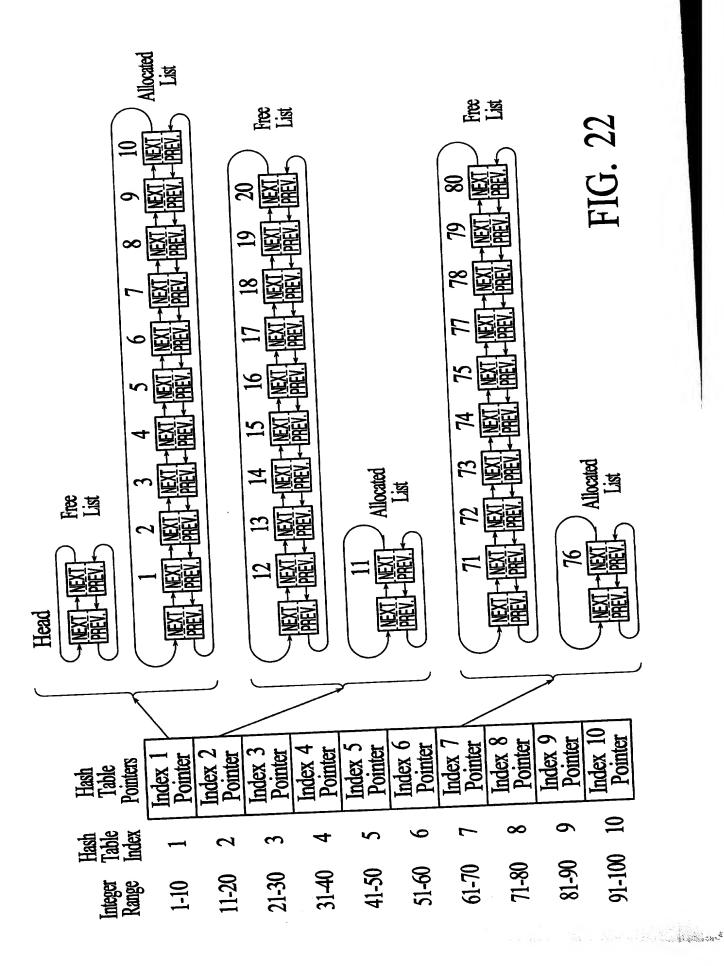
FIG. 18

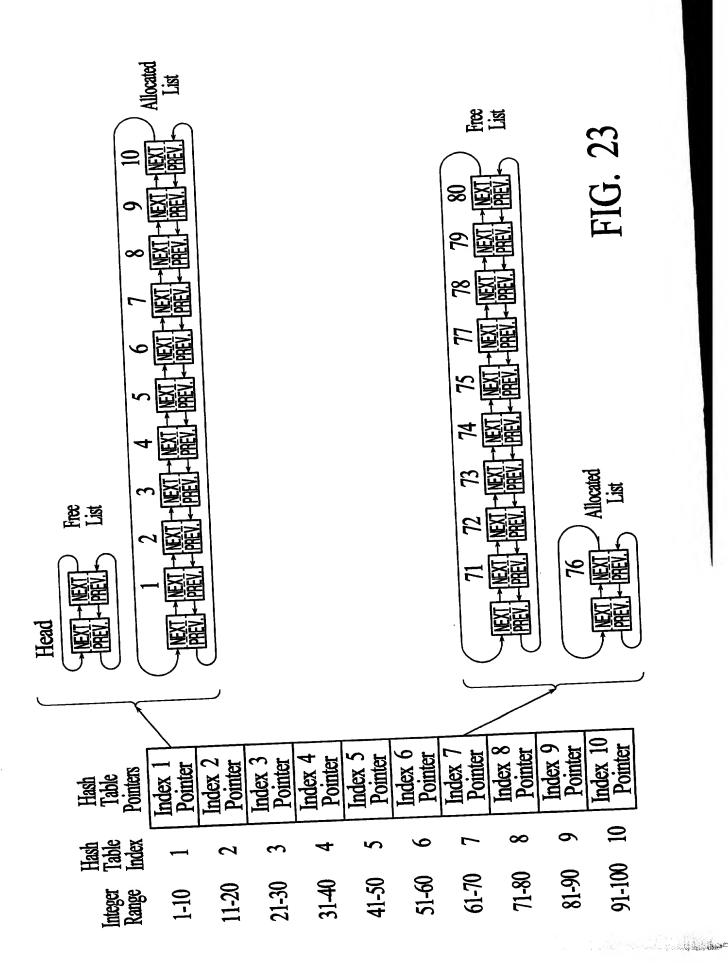
The state of the s

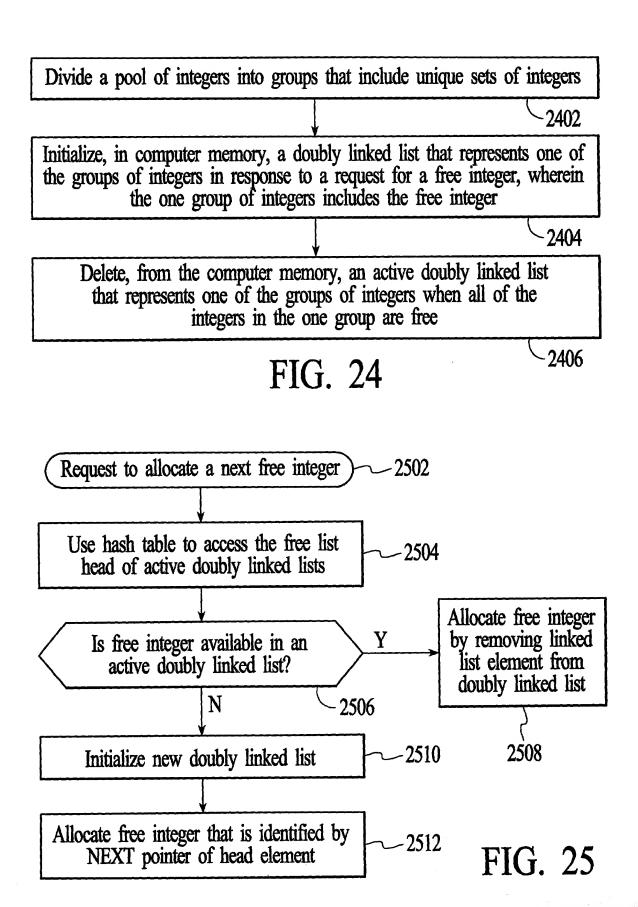


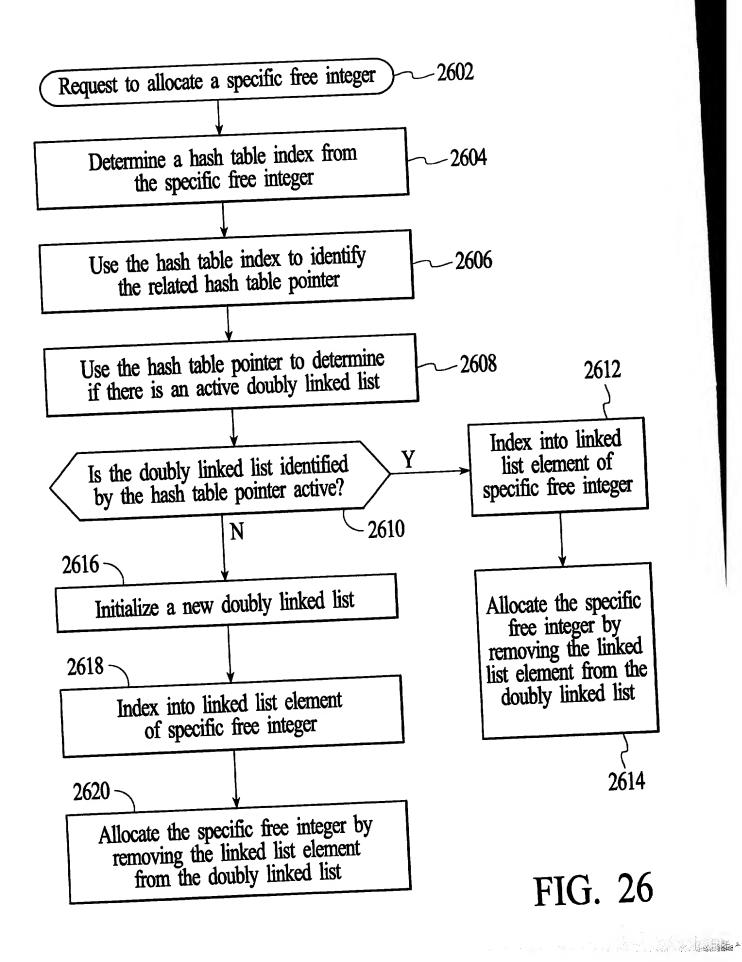












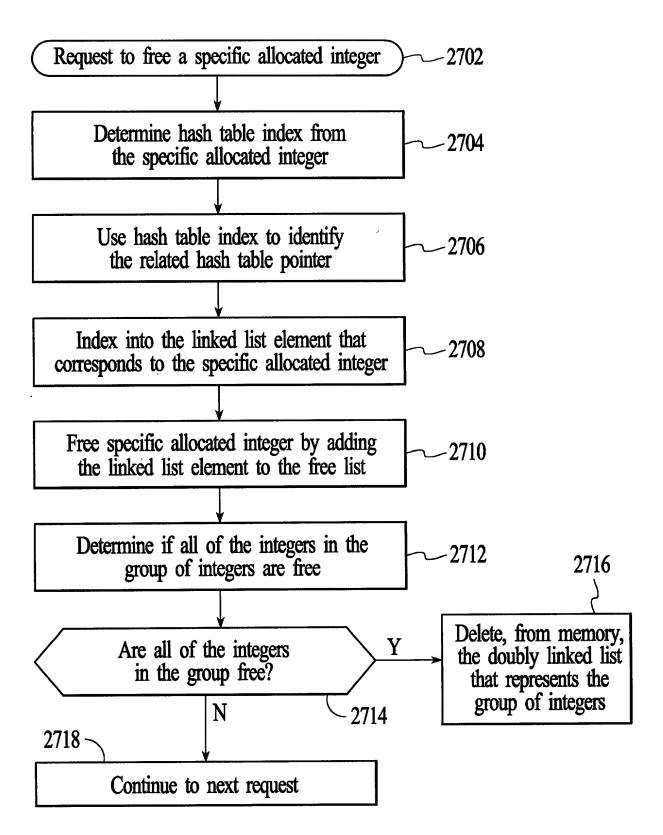


FIG. 27

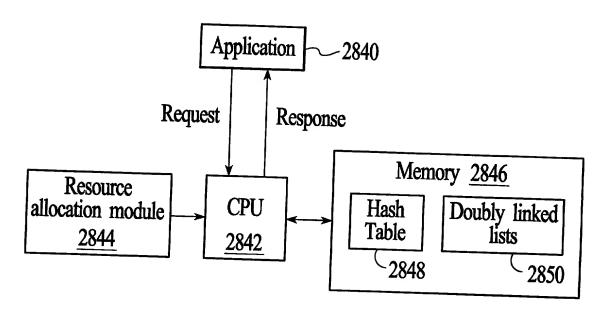


FIG. 28